

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	AT01	Attic	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:31 2022 Page 1  
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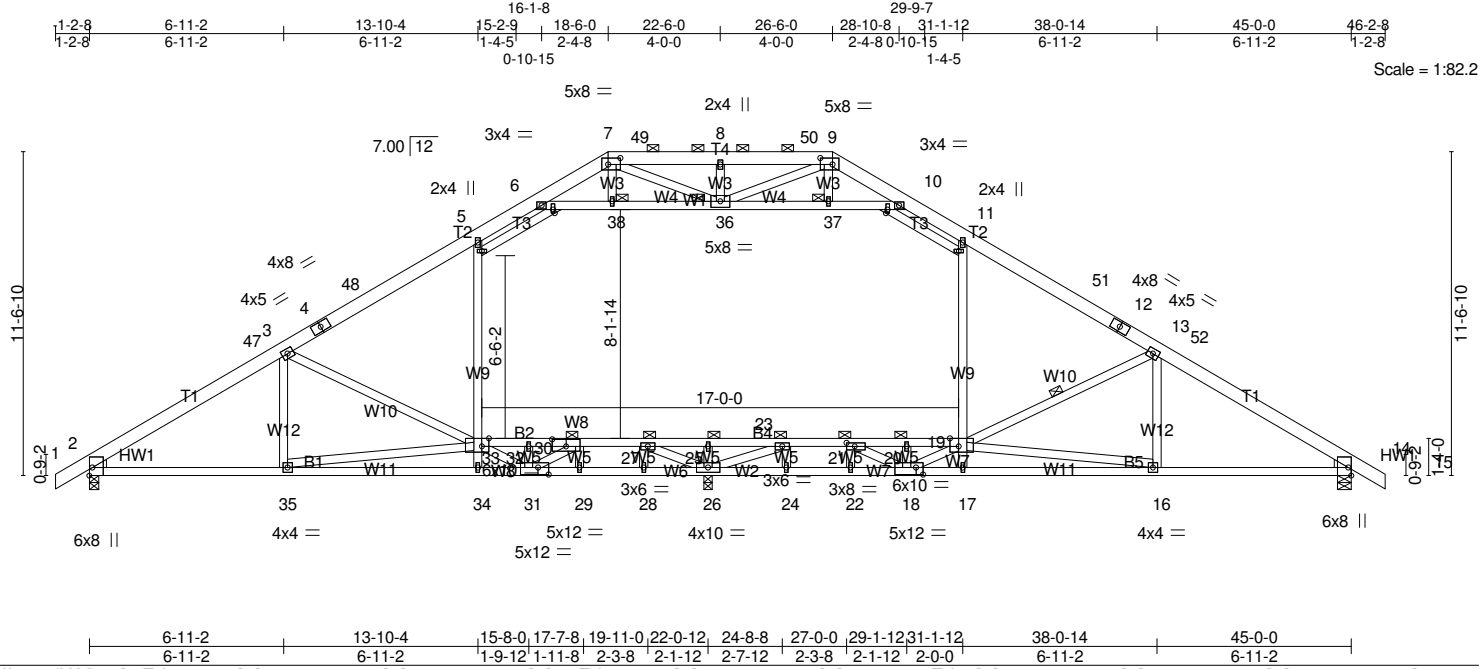


Plate Offsets (X,Y)-- [2:Edge,0-1-4], [7:0-5-4,0-2-12], [9:0-5-4,0-2-12], [14:Edge,0-1-4], [18:0-3-0,0-3-0], [19:0-3-12,Edge], [21:0-3-8,0-1-8], [30:0-6-0,0-3-0], [31:0-4-8,0-3-0], [33:0-3-0,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.33 16-17 >840 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.51 16-17 >539 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.12 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Attic -0.23 19-33 871 360	Weight: 370 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP 2400F 2.0E, T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x4 SP No.1 *Except* B2: 2x4 SP No.2, B5,B4: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W9: 2x4 SP DSS, W1: 2x4 SP No.2	WEBS 1 Row at midpt 13-19
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 30, 25, 36, 37, 38, 23, 21, 20, 27
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1772/0-4-0 (min. 0-2-7), 14=1798/0-6-0 (min. 0-2-2), 26=1300/0-3-8 (min. 0-2-8)  
Max Horz 2=-285(LC 14)  
Max Uplift 2=-96(LC 16), 14=-105(LC 17)  
Max Grav 2=2083(LC 40), 14=2114(LC 40), 26=2123(LC 48)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-47=-3306/184, 3-47=-3114/206, 3-4=-2617/126, 4-48=-2455/139, 5-48=-2383/164,  
5-6=-2155/265, 6-7=-978/280, 7-49=-1352/330, 8-49=-1352/330, 8-50=-1352/330,  
9-50=-1352/330, 9-10=-985/272, 10-11=-2152/266, 11-51=-2383/162, 12-51=-2459/137,  
12-13=-2622/125, 13-52=-3171/196, 14-52=-3363/174  
BOT CHORD 2-35=-160/2761, 34-35=-562/3033, 31-34=-599/3102, 29-31=-314/1188, 28-29=-297/909,  
26-28=-297/909, 24-26=-132/1345, 22-24=-132/1345, 18-22=-132/1345, 17-18=-454/3450,  
16-17=-420/3378, 14-16=-58/2796, 32-33=-969/1349, 30-32=-969/1349, 27-30=-105/1875,  
25-27=0/4271, 23-25=0/4271, 21-23=-320/1727, 20-21=-1299/1126, 19-20=-1299/1126  
WEBS 5-33=-84/490, 11-19=-59/497, 13-16=-58/267, 6-38=-2105/77, 36-38=-2095/78,  
36-37=-2058/82, 10-37=-2068/80, 8-36=-480/112, 7-36=-183/634, 9-36=-187/623,  
23-24=0/484, 23-26=-3520/0, 21-22=-518/56, 18-20=-512/0, 18-21=-257/2164,  
18-19=-672/261, 27-28=-27/640, 26-27=-3207/50, 29-30=-771/101, 31-32=-549/0,  
30-31=-288/1930, 31-33=-664/238, 33-35=-722/1256, 3-33=-833/310, 16-19=-1005/1071,  
13-19=-912/314

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	AT01	Attic	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:32 2022 Page 2  
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**NOTES-**

- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-38, 36-38, 36-37, 10-37; Wall dead load (5.0psf) on member(s).5-33, 11-19
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 32-33, 30-32, 27-30, 25-27, 23-25, 21-23, 20-21, 19-20
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=105.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	AT02	ATTIC	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:34 2022 Page 1  
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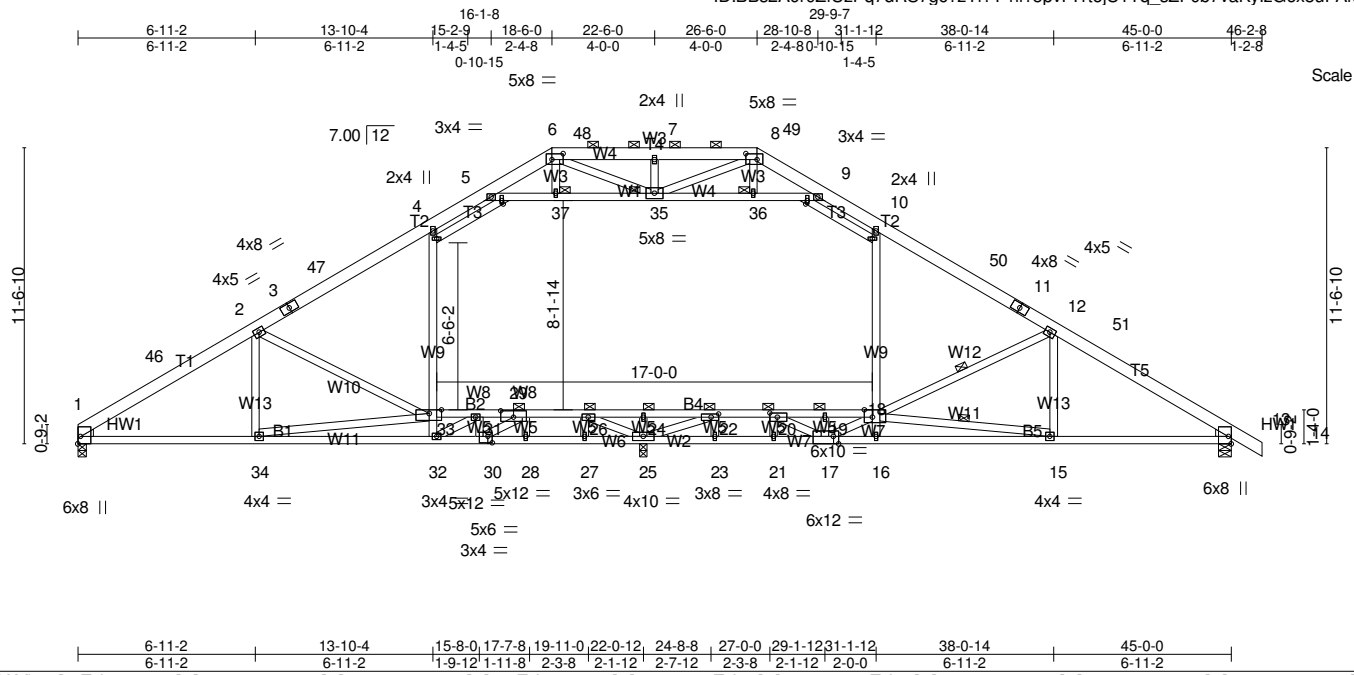


Plate Offsets (X,Y)-- [1:Edge,0-1-4], [6:0-5-4,0-2-12], [8:0-5-4,0-2-12], [13:Edge,0-1-4], [17:0-2-8,Edge], [18:0-3-12,Edge], [20:0-3-8,0-2-0], [22:0-3-8,0-1-8], [29:0-6-0,0-3-0], [30:0-2-0,0-3-0], [33:0-5-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.36 15-16 >763 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.94	Vert(CT) -0.57 15-16 >480 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.13 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Attic -0.25 18-33 802 360	Weight: 367 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
T3: 2x4 SP No.2  
BOT CHORD 2x4 SP No.1 \*Except\*  
B4: 2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\*  
W9,W1: 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 15-18, 12-18  
JOINTS 1 Brace at Jt(s): 29, 24, 35, 36, 37, 22, 20, 19, 26

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1643/0-4-0 (min. 0-2-5), 13=1753/0-6-0 (min. 0-2-7), 25=1394/0-3-8 (min. 0-2-11)  
Max Horz 1=-279(LC 14)  
Max Uplift1=-71(LC 16), 13=-108(LC 17)  
Max Grav 1=1938(LC 40), 13=2053(LC 40), 25=2259(LC 48)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-46=-3210/204, 2-46=-3019/208, 2-3=-2481/125, 3-47=-2319/138, 4-47=-2246/163,  
4-5=-2053/264, 5-6=-984/274, 6-48=-1380/325, 7-48=-1380/325, 7-49=-1380/325,  
8-49=-1380/325, 8-9=-991/263, 9-10=-2050/265, 10-50=-2247/162, 11-50=-2310/139,  
11-12=-2486/124, 12-51=-3075/197, 13-51=-3266/192  
BOT CHORD 1-34=-168/2679, 32-34=-600/3173, 30-32=-447/2587, 28-30=-376/1118, 27-28=-456/794,  
25-27=-456/794, 23-25=-271/1176, 21-23=-271/1176, 17-21=-271/1176, 16-17=-458/3505,  
15-16=-429/3443, 13-15=-59/2717, 31-33=-1781/1248, 29-31=-810/1499, 26-29=-117/2006,  
24-26=0/4608, 22-24=0/4608, 20-22=-309/1775, 19-20=-1367/1069, 18-19=-1367/1069  
WEBS 2-34=-81/261, 32-33=-380/232, 4-33=-149/441, 10-18=-110/443, 12-15=-41/287,  
5-37=-1954/75, 35-37=-1944/76, 35-36=-1897/79, 9-36=-1906/78, 7-35=-495/113,  
6-35=-173/656, 8-35=-177/643, 22-23=0/528, 22-25=-3793/0, 20-21=-565/56, 17-19=-539/0,  
17-20=-256/2397, 17-18=-779/258, 26-27=-27/701, 25-26=-3458/51, 28-29=-943/113,  
30-31=-938/138, 29-30=-272/1949, 31-32=-254/876, 33-34=-914/1249, 2-33=-876/318,  
15-18=-1108/997, 12-18=-954/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	AT02	ATTIC	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:34 2022 Page 2  
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**NOTES-**

- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-37, 35-37, 35-36, 9-36; Wall dead load (5.0psf) on member(s).4-33, 10-18
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-33, 29-31, 26-29, 24-26, 22-24, 20-22, 19-20, 18-19
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 13=108.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	J01	Jack-Open	13	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:35 2022 Page 1  
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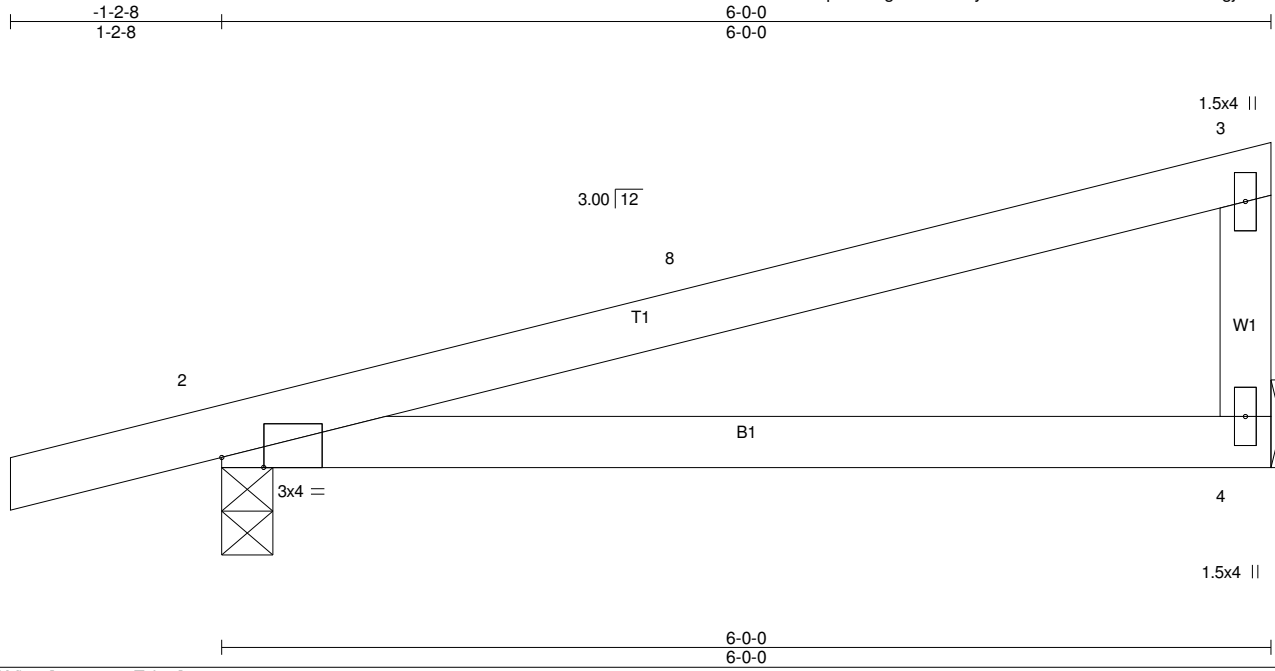


Plate Offsets (X,Y)-- [2:0-2-14,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.63	Vert(LL) -0.08	4-7	>912	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT) -0.14	4-7	>491	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT) 0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 22 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=341/0-3-8 (min. 0-1-8), 4=244/Mechanical  
Max Horz 2=72(LC 12)  
Max Uplift 2=-88(LC 12), 4=-48(LC 16)  
Max Grav 2=399(LC 2), 4=283(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

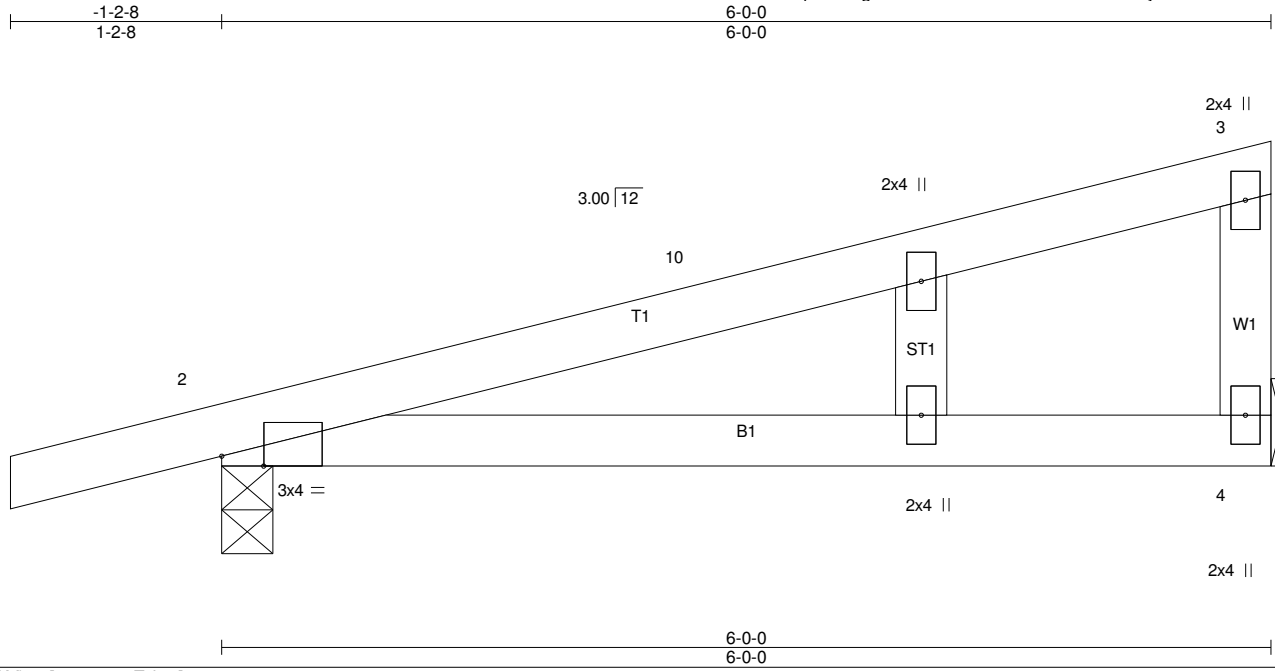
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	J02	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:36 2022 Page 1  
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Scale = 1:13.2

Plate Offsets (X,Y)-- [2:0-2-14,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.63	Vert(LL) -0.08	4-9	>912	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT) -0.14	4-9	>491	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT) 0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 23 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=341/0-3-8 (min. 0-1-8), 4=244/Mechanical  
Max Horz 2=72(LC 12)  
Max Uplift 2=-88(LC 12), 4=-48(LC 16)  
Max Grav 2=399(LC 2), 4=283(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

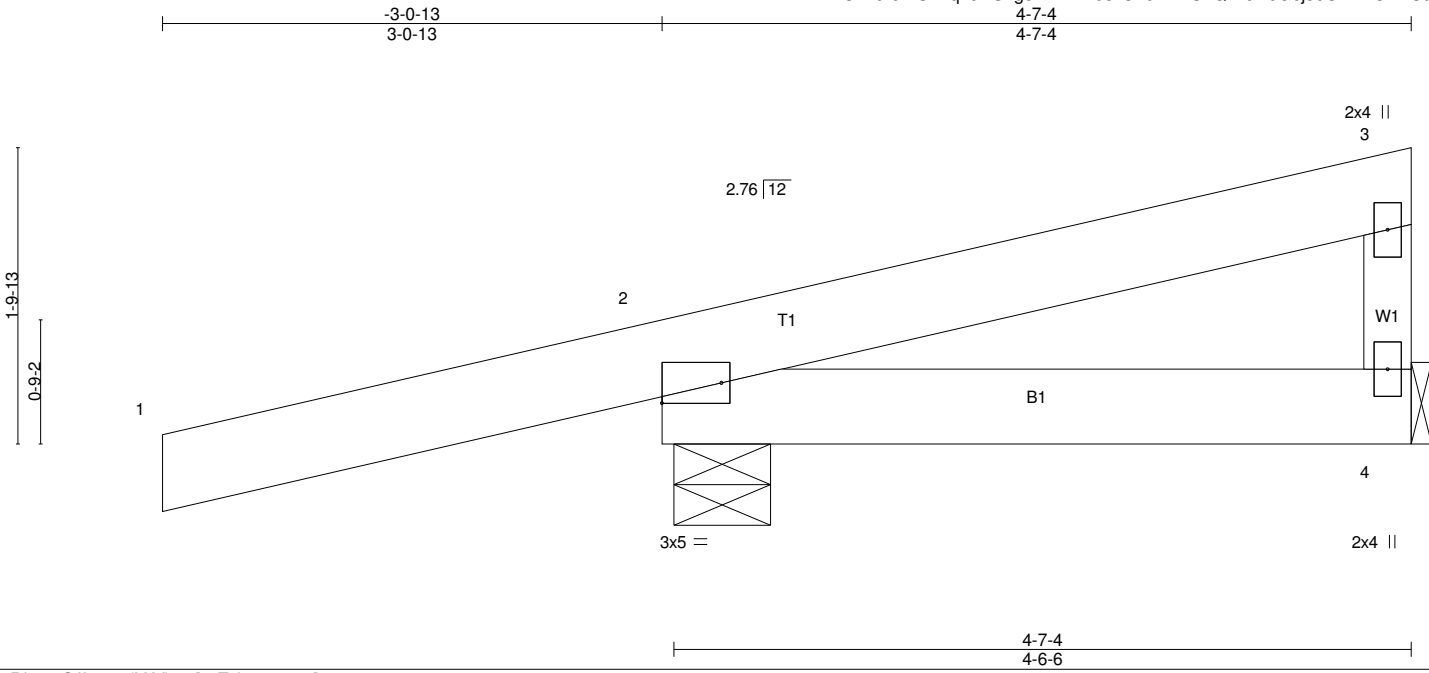
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) Refer to girder(s) for truss to truss connections.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	J03	Jack-Open Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:14.1

Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.44	Vert(LL)	0.01	4-7	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	-0.01	4-7	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP							
BCDL 10.0	Code IRC2015/TPI2014							Weight: 31 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=122/Mechanical, 2=465/0-7-2 (min. 0-1-8)  
Max Horz 2=76(LC 12)  
Max Uplift 4=17(LC 16), 2=-189(LC 12)  
Max Grav 4=145(LC 23), 2=553(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

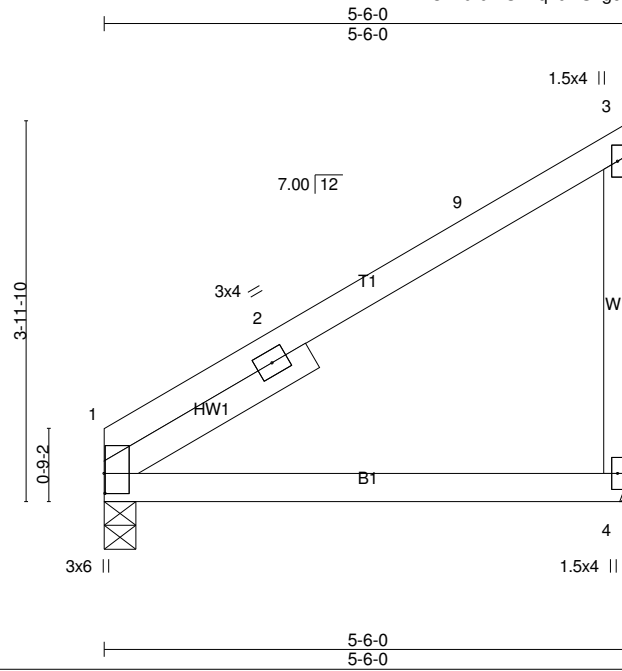
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=189.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	M01	Monopitch	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:37 2022 Page 1  
ID:BBs2A9r0ZfUzPq7dRS7gc?zYI?Y-5KhERxRBKoAHLVCPg\_6yeDIUhX6wArTNqrTqLUzYkX4



Scale: 1/2"=1'

Plate Offsets (X,Y)-- [1:0-2-8,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.59	Vert(LL)	-0.06	4-7	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.42	Vert(CT)	-0.10	4-7	>616		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.03	1	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 27 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 -p 2-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=231/0-4-0 (min. 0-1-8), 4=231/Mechanical  
 Max Horz 1=130(LC 15)  
 Max Uplift1=-16(LC 16), 4=-62(LC 16)  
 Max Grav 1=268(LC 2), 4=276(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-262/0

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

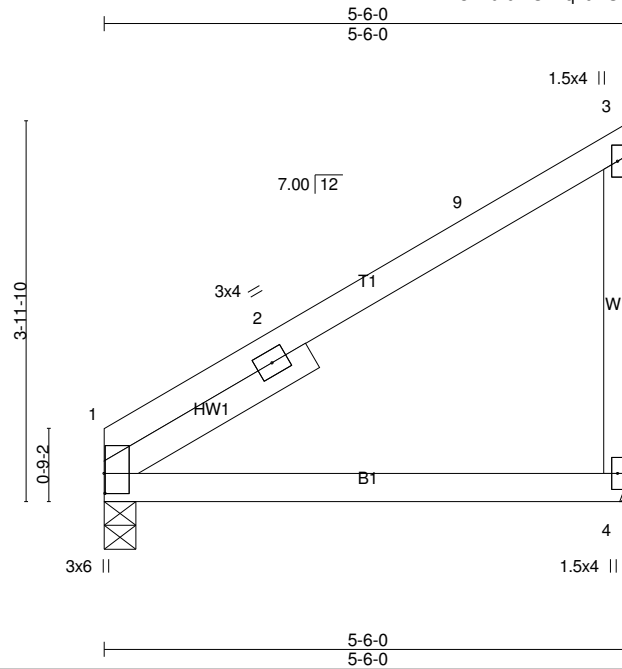
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	M02	Monopitch	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:38 2022 Page 1  
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Scale: 1/2"=1'

Plate Offsets (X,Y)-- [1:0-2-8,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.59	Vert(LL)	-0.06	4-7	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.42	Vert(CT)	-0.10	4-7	>616		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.03	1	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 27 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 -p 2-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=231/0-4-0 (min. 0-1-8), 4=231/Mechanical  
 Max Horz 1=130(LC 15)  
 Max Uplift1=-16(LC 16), 4=-62(LC 16)  
 Max Grav 1=268(LC 2), 4=276(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-262/0

**NOTES-**

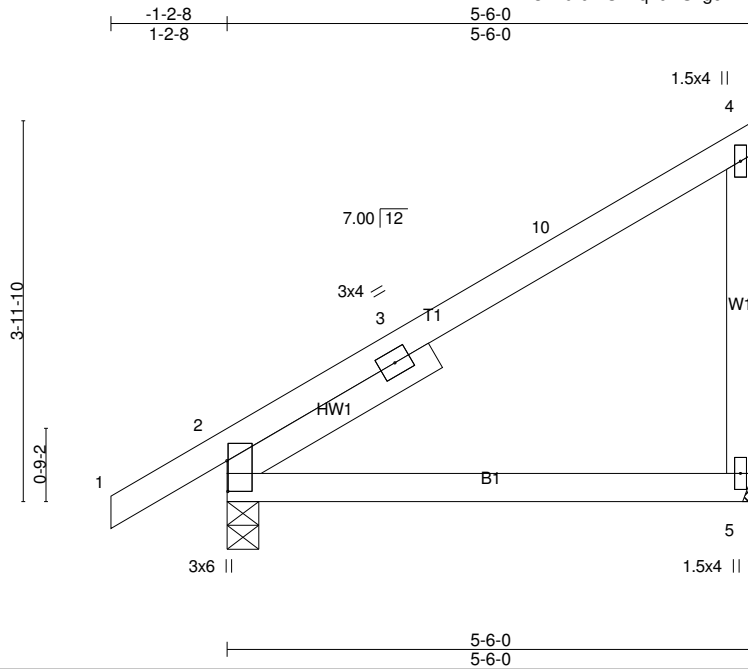
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	M03	Monopitch	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale: 1/2"=1'

Plate Offsets (X,Y)-- [2:0-3-13,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.56	Vert(LL)	-0.05	5-8	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT)	-0.09	5-8	>683		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.03	2	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 29 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 -p 2-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=222/Mechanical, 2=320/0-4-0 (min. 0-1-8)  
 Max Horz 2=141(LC 15)  
 Max Uplift 5=60(LC 16), 2=-44(LC 16)  
 Max Grav 5=266(LC 30), 2=375(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

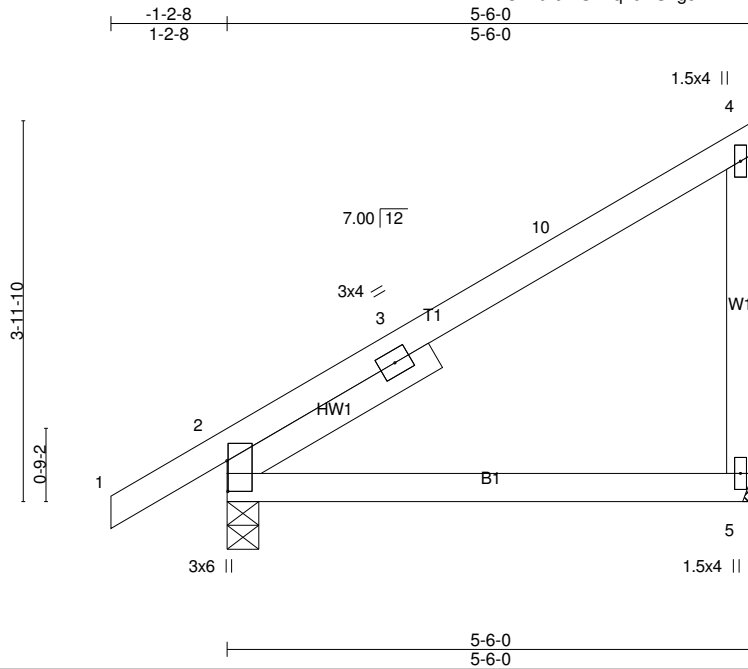
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	M04	Monopitch	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:40 2022 Page 1  
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Scale: 1/2"=1'

Plate Offsets (X,Y)-- [2:0-3-13,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.56	Vert(LL)	-0.05	5-8	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT)	-0.09	5-8	>683		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.03	2	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 29 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x4 SP No.3 -p 2-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=222/Mechanical, 2=320/0-4-0 (min. 0-1-8)  
 Max Horz 2=141(LC 15)  
 Max Uplift 5=-60(LC 16), 2=-44(LC 16)  
 Max Grav 5=266(LC 30), 2=375(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

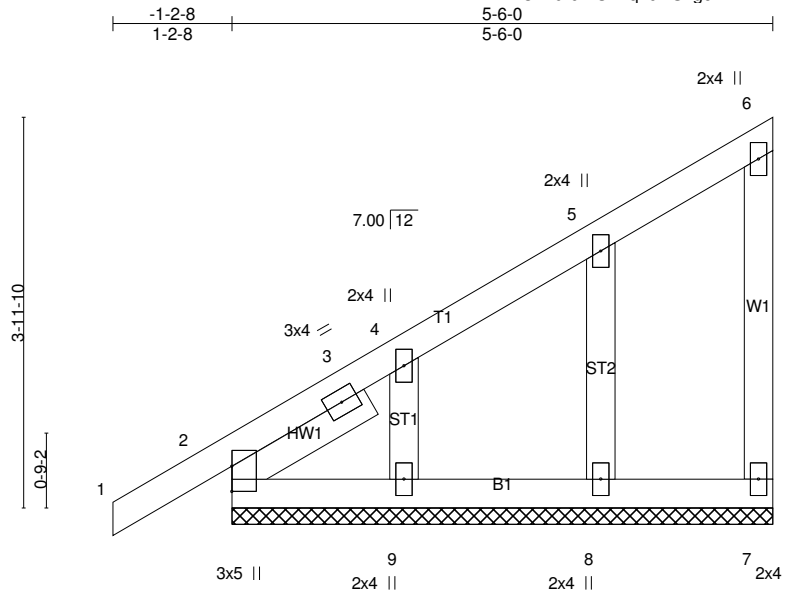
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	M05	Monopitch Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:23.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) 0.00 1 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 33 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 -p 1-7-7

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 5-6-0.  
(lb) - Max Horz 2=139(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 9, 8  
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

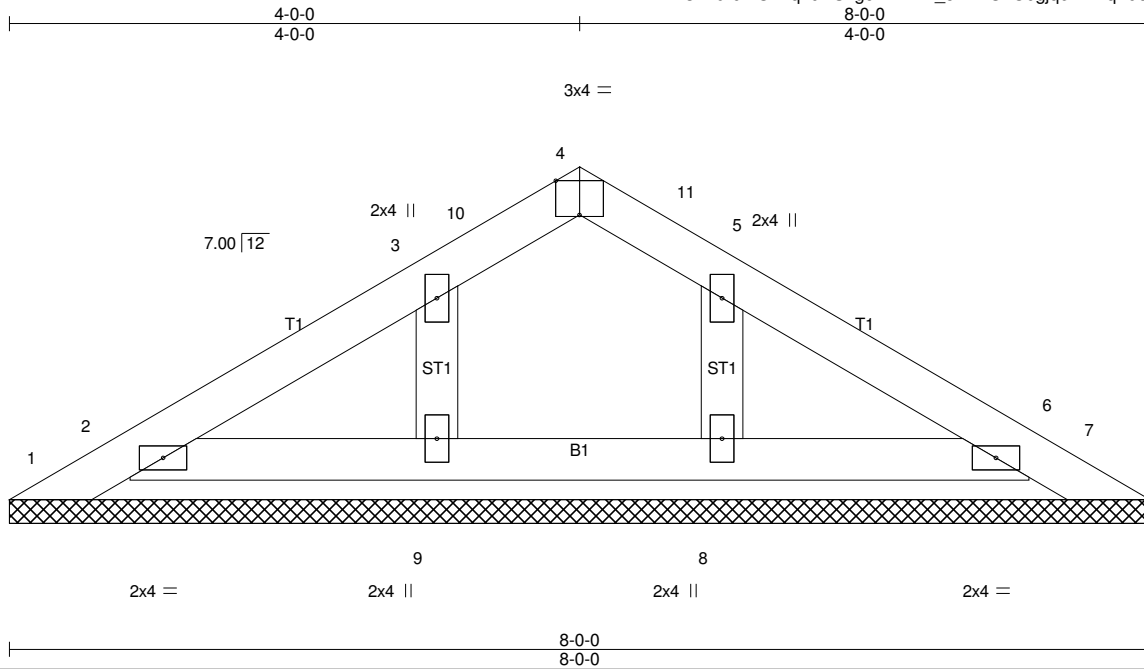
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 2-0-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 9, 8.
  - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
  - 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 22-1327-A	Truss PB01	Truss Type GABLE	Qty 1	Ply 1	WOLVINGTON RES ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:16.2

Plate Offsets (X,Y)-- [4:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 26 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-0-0.  
(lb) - Max Horz 1=54(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 9, 8  
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

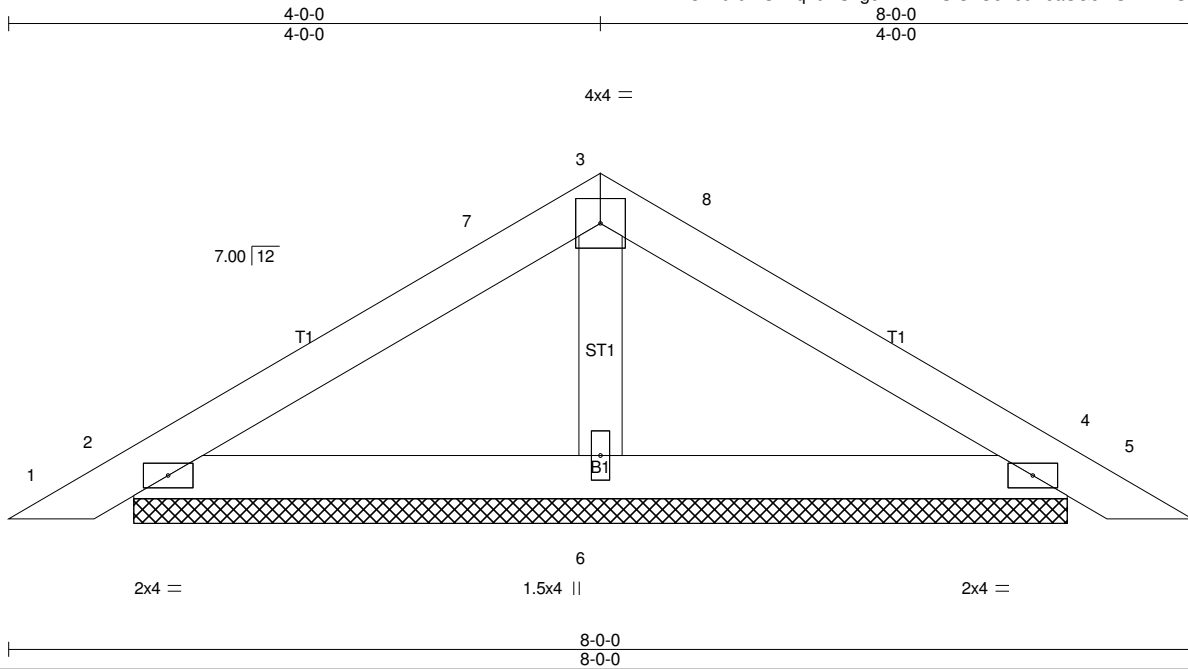
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 9, 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	PB02	Piggyback	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:42 2022 Page 1  
ID:BBs2A9r0ZfUzPq7dRS7gc?zYl?Y-SIU7UeVJ9KoaSG5MSXi7LHSR7Yv1r616\_7Bb0izYkX?



Scale = 1:15.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.01 5 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) 0.01 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 25 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=183/6-3-11 (min. 0-1-8), 4=183/6-3-11 (min. 0-1-8), 6=251/6-3-11 (min. 0-1-8)  
Max Horz 2=-54(LC 14)  
Max Uplift 2=-44(LC 16), 4=-51(LC 17)  
Max Grav 2=216(LC 2), 4=216(LC 2), 6=287(LC 2)

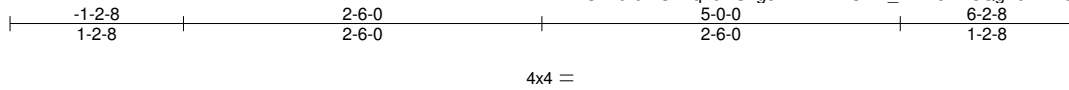
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

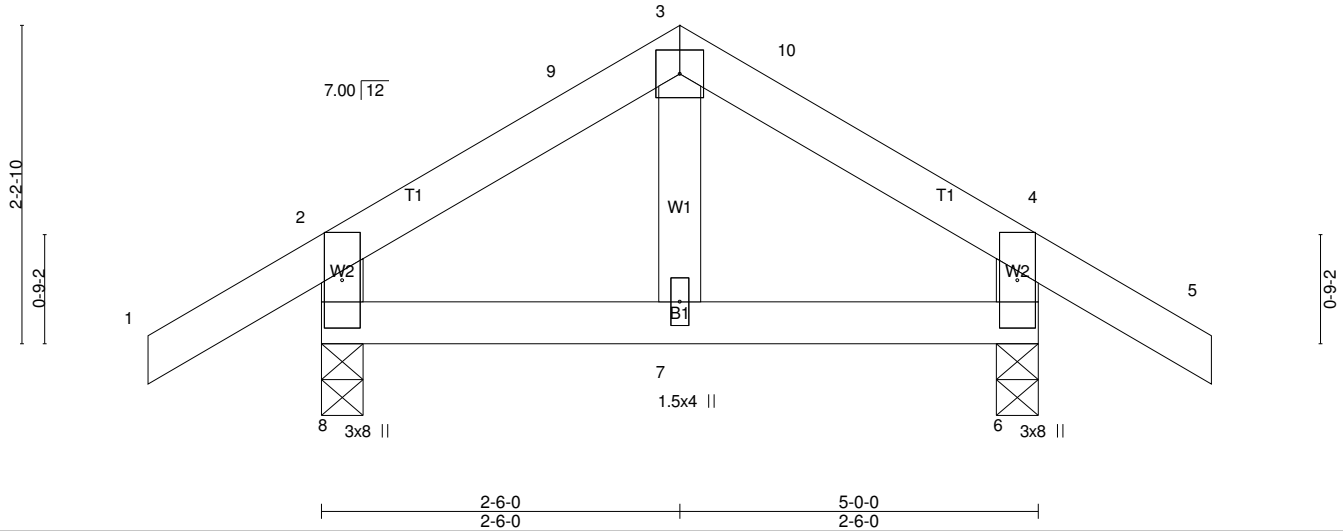
**LOAD CASE(S)** Standard

Job 22-1327-A	Truss T01	Truss Type Common	Qty 1	Ply 1	WOLVINGTON RES ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:43 2022 Page 1  
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Scale: 3/4"=1'



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.00 7 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 7 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 6 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MR			
BCDL 10.0				Weight: 24 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=293/0-3-8 (min. 0-1-8), 6=293/0-3-8 (min. 0-1-8)  
Max Horz 8=-73(LC 14)  
Max Uplift 8=51(LC 16), 6=51(LC 17)  
Max Grav 8=344(LC 2), 6=344(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-298/130, 4-6=-298/130

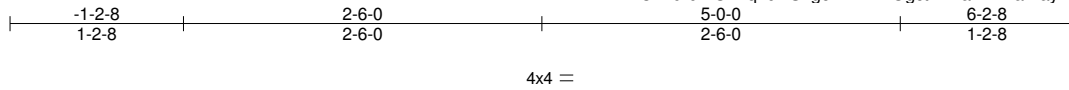
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T01SGE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:44 2022 Page 1  
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Scale: 3/4"=1'

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.00 7 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 7 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 6 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MR			
BCDL 10.0				Weight: 27 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=293/0-3-8 (min. 0-1-8), 6=293/0-3-8 (min. 0-1-8)  
Max Horz 8=-73(LC 14)  
Max Uplift 8=51(LC 16), 6=51(LC 17)  
Max Grav 8=344(LC 2), 6=344(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-298/130, 4-6=-298/130

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Gable studs spaced at 1-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

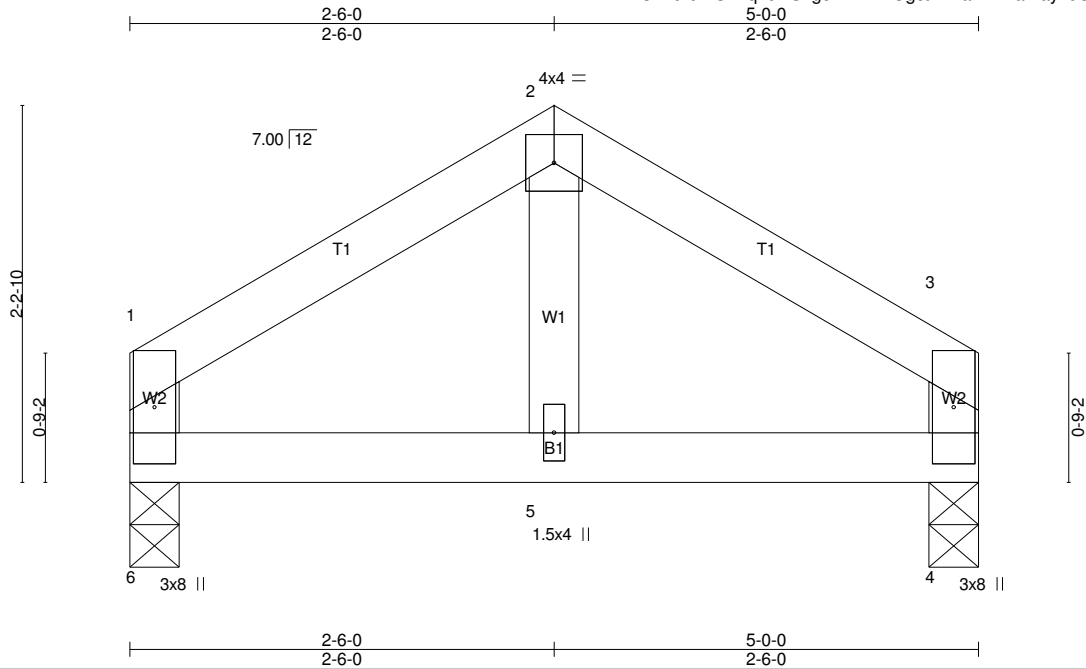
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T02	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.00 5 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 5 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MR			
BCDL 10.0				Weight: 20 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=203/0-3-8 (min. 0-1-8), 4=203/0-3-8 (min. 0-1-8)  
Max Horz 6=-53(LC 12)  
Max Uplift 6=-20(LC 16), 4=-20(LC 17)  
Max Grav 6=235(LC 2), 4=235(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

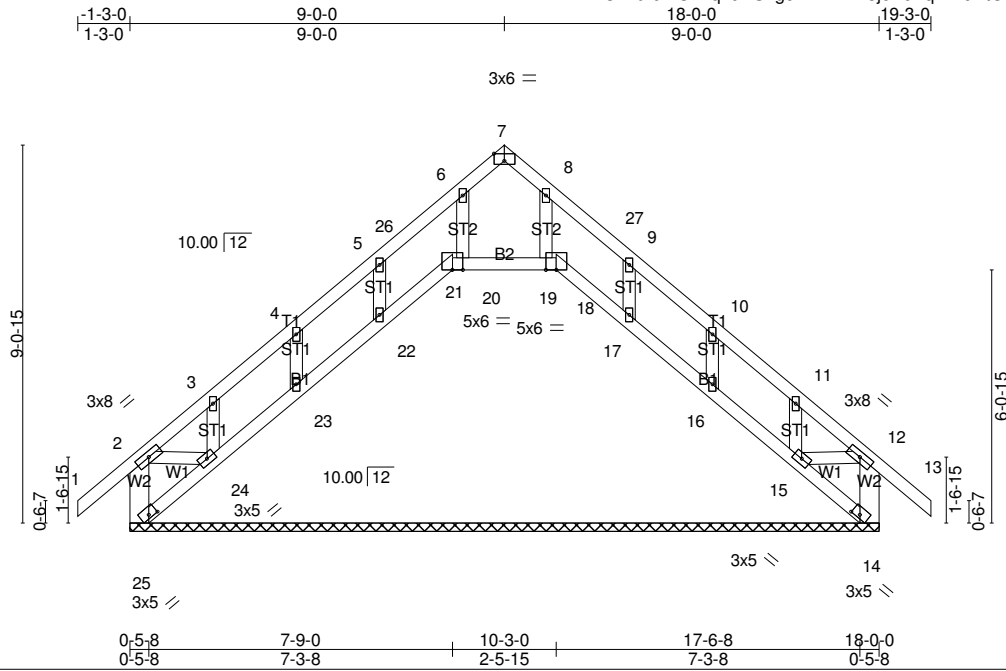
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T03	Roof Special Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:46 2022 Page 1  
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Scale = 1:55.4

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [14:0-2-8,0-0-14], [25:0-2-8,0-0-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.21	Vert(LL)	-0.01	13	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	-0.02	13	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.01	14	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 102 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x6 SP No.2 \*Except\*  
 W1: 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 18-0-0.  
 (lb) - Max Horz 25=-268(LC 14)  
 Max Uplift All uplift 100 lb or less at joint(s) 21, 18, 20, 23, 16 except 25=-240(LC 12), 22=-101(LC 16), 24=-258(LC 16), 17=-103(LC 17), 15=-242(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 21, 18, 20, 22, 23, 19, 17, 16, 15 except 25=404(LC 31), 14=251(LC 2), 24=253(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 BOT CHORD 24-25=-337/316, 23-24=-264/315, 22-23=-265/315, 21-22=-261/308, 17-18=-261/308, 16-17=-265/315, 15-16=-265/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 25, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 18, 20, 23, 16 except (jt=lb) 25=240, 22=101, 24=258, 17=103, 15=242.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21, 18, 20, 22, 23, 24, 19, 17, 16, 15.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T03	Roof Special Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:46 2022 Page 2  
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**NOTES-**

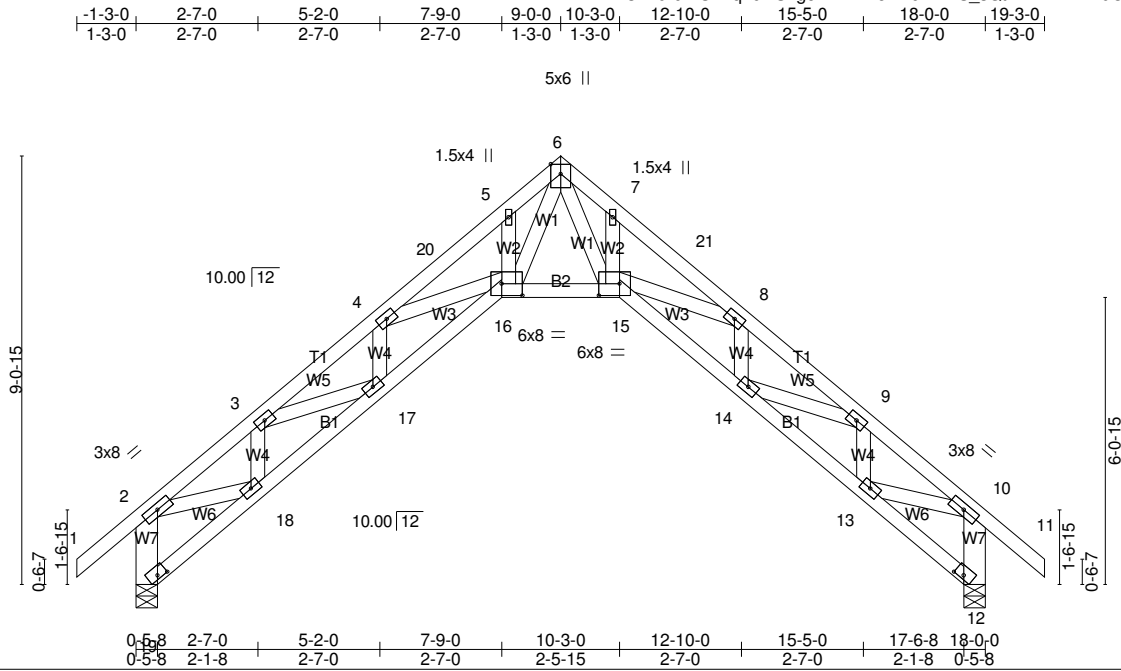
16) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T04	ROOF SPECIAL	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:47 2022 Page 1  
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Scale = 1:48.8

Plate Offsets (X,Y)-- [12:0-2-8,0-0-14], [15:0-5-4,0-3-0], [16:0-5-4,0-3-0], [19:0-2-8,0-0-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.21 15-16 >995 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.36 15-16 >592 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.64 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 123 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W7: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,12-13.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 19=854/0-5-8 (min. 0-1-8), 12=854/0-5-8 (min. 0-1-8)  
 Max Horz 19=-268(LC 14)  
 Max Uplift19=-89(LC 16), 12=-89(LC 17)  
 Max Grav 19=995(LC 2), 12=995(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1532/203, 3-4=-2636/240, 4-20=-3061/69, 5-20=-2986/80, 5-6=-2930/144,  
 6-7=-2814/19, 7-21=-2879/0, 8-21=-2971/0, 8-9=-2552/118, 9-10=-1481/137,  
 2-19=-977/173, 10-12=-959/173  
 BOT CHORD 18-19=-336/332, 17-18=-327/1674, 16-17=-296/2759, 15-16=-48/1544, 14-15=0/2498,  
 13-14=-37/1415  
 WEBS 6-15=0/1829, 8-15=-161/432, 8-14=-443/24, 9-14=0/872, 9-13=-680/59, 10-13=-42/1102,  
 6-16=-204/2005, 4-16=-88/329, 4-17=-438/15, 3-17=0/869, 3-18=-689/95, 2-18=-94/1115

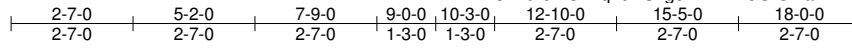
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - All plates are 3x5 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 19, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T05	Roof Special	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:48 2022 Page 1  
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5x6 ||

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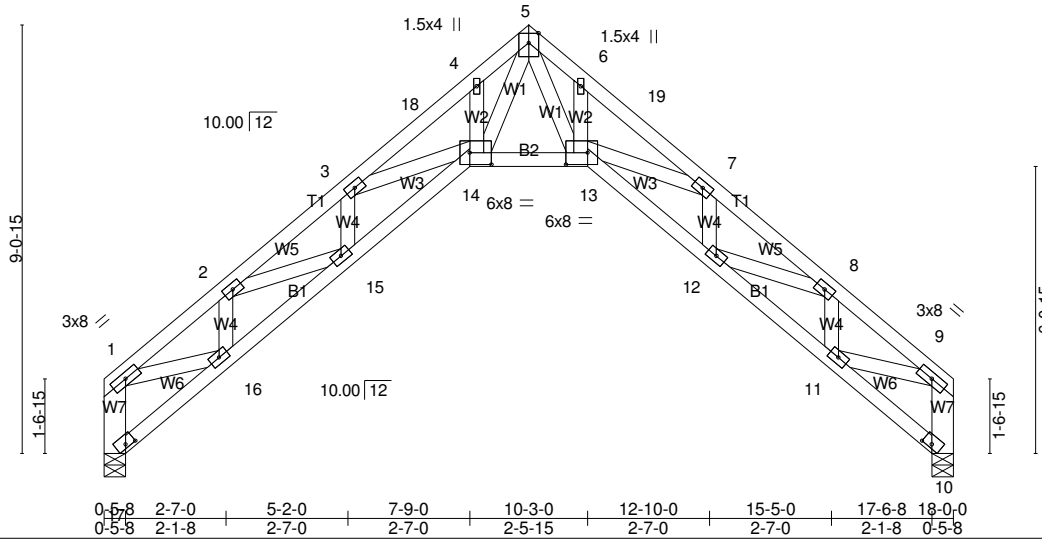


Plate Offsets (X,Y)-- [10:0-2-8,0-0-14], [13:0-5-8,0-3-0], [14:0-5-8,0-3-0], [17:0-2-8,0-0-14]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.22 13-14 >963 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.36 13-14 >577 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.66 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 118 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
W7: 2x6 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-0-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 17=756/0-5-8 (min. 0-1-8), 10=756/0-5-8 (min. 0-1-8)  
Max Horz 17=-238(LC 14)  
Max Uplift 17=-58(LC 16), 10=-58(LC 17)  
Max Grav 17=877(LC 2), 10=877(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1560/266, 2-3=-2655/357, 3-18=-3043/223, 4-18=-2969/232, 4-5=-2914/311,  
5-6=-2880/304, 6-19=-2947/225, 7-19=-3039/215, 7-8=-2637/333, 8-9=-1547/227,  
1-17=-878/170, 9-10=-867/142  
BOT CHORD 16-17=-305/310, 15-16=-352/1694, 14-15=-341/2745, 13-14=-84/1520, 12-13=-231/2566,  
11-12=-224/1492  
WEBS 5-13=-196/1874, 7-13=-149/413, 7-12=-433/35, 8-12=-5/859, 8-11=-699/128,  
9-11=-144/1128, 5-14=-235/1995, 3-14=-53/309, 3-15=-433/27, 2-15=0/859, 2-16=-699/120,  
1-16=-133/1128

**NOTES-**

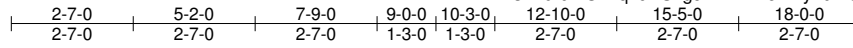
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T06	ROOF SPECIAL	1	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:49 2022 Page 1  
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5x5 =

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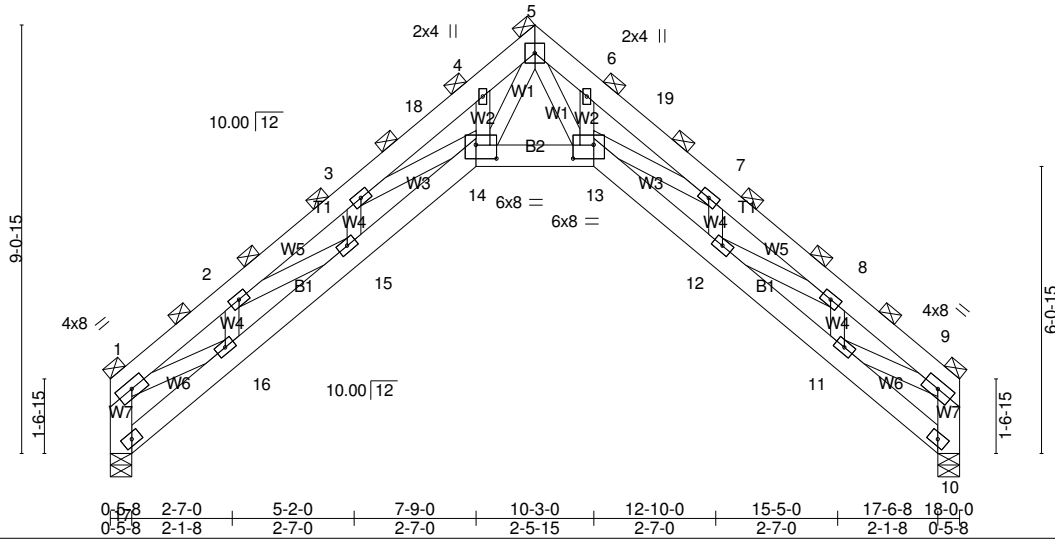


Plate Offsets (X,Y)-- [13:0-5,4,0-3-8], [14:0-5,4,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	3-0-0	TC 0.16	Vert(LL) -0.09	13-14	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT) -0.15	13-14	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.34	Horz(CT) 0.27	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 463 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W7: 2x6 SP No.2

**BRACING-**  
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 17=1134/0-5-8 (min. 0-1-8), 10=1134/0-5-8 (min. 0-1-8)  
 Max Horz 17=-345(LC 14)  
 Max Uplift 17=-88(LC 16), 10=-88(LC 17)  
 Max Grav 17=1316(LC 2), 10=1316(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2582/404, 2-3=-4359/522, 3-18=-4846/274, 4-18=-4702/285, 4-5=-4224/377,  
 5-6=-4198/369, 6-19=-4684/276, 7-19=-4846/265, 7-8=-4339/493, 8-9=-2574/355,  
 1-17=-1321/244, 9-10=-1310/207  
 BOT CHORD 16-17=-427/479, 15-16=-511/2736, 14-15=-494/4492, 13-14=-103/2504, 12-13=-335/4239,  
 11-12=-337/2447  
 WEBS 5-13=-211/2441, 6-13=-55/723, 7-13=-267/538, 7-12=-627/52, 8-12=0/1460, 8-11=-970/177,  
 9-11=-218/1839, 5-14=-296/2599, 4-14=0/648, 3-14=-155/426, 3-15=-627/44, 2-15=0/1460,  
 2-16=-970/178, 1-16=-216/1839

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - All plates are 3x5 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	T06	ROOF SPECIAL	1	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:49 2022 Page 2  
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**NOTES-**

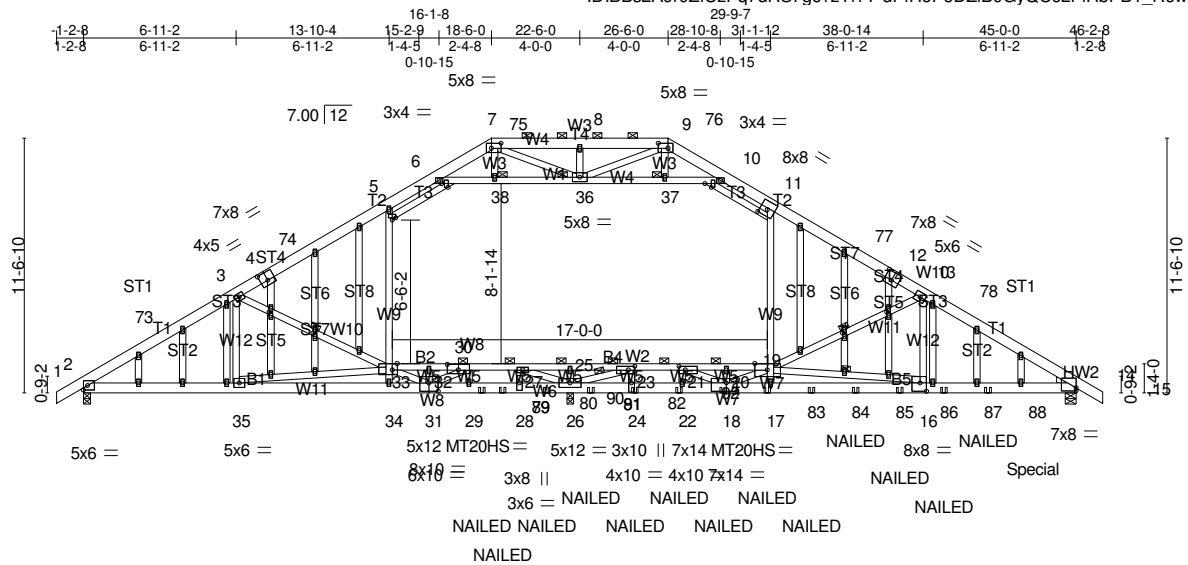
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	TG01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Mon Mar 21 11:39:53 2022 Page 1  
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Plate Offsets (X,Y)--	[4:0-4-0,0-4-8], [6:0-2-0,Edge], [7:0-5-4,0-2-12], [9:0-5-4,0-2-12], [10:0-2-0,Edge], [11:0-4-0,0-3-8], [12:0-4-0,0-4-8], [14:0-0-0,0-1-10], [16:0-3-8,0-4-8], [18:0-5-12,0-4-8], [19:0-6-12,Edge], [21:0-3-8,0-2-0], [23:0-3-8,0-2-0], [30:0-6-0,0-3-0], [31:0-5-0,0-4-8], [33:0-2-12,Edge], [39:0-2-0,Edge], [43:0-1-14,0-1-0], [46:0-1-14,0-1-0], [58:0-1-14,0-1-0], [60:0-1-14,0-1-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.62 16-17 >441 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.97 16-17 >283 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.09 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Attic -0.43 19-33 470 360	Weight: 472 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP 2400F 2.0E, T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 7-9.
BOT CHORD 2x6 SP 2400F 2.0E *Except* B2: 2x4 SP No.2, B4: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 2-8-0 oc bracing: 19-30 4-10-0 oc bracing: 30-33
WEBS 2x4 SP No.3 *Except* W9,W1,W2,W11: 2x4 SP No.2, W7: 2x4 SP No.1	WEBS 1 Row at midpt 23-26, 3-33, 16-19, 13-19
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 36, 37, 38, 30
WEDGE Right: 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1987/0-4-0 (min. 0-1-14), 26=3139/0-3-8 (min. 0-3-2), 14=3330/0-6-0 (min. 0-3-1)  
Max Horz 2=-285(LC 14)  
Max Uplift 2=-130(LC 16), 26=-142(LC 16), 14=-460(LC 17)  
Max Grav 2=2276(LC 40), 26=3745(LC 46), 14=3679(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-73=-3681/295, 3-73=-3484/316, 3-4=-3251/323, 4-74=-3089/336, 5-74=-3029/361, 5-6=-2686/423, 6-7=-908/370, 7-75=-1301/413, 8-75=-1301/413, 8-76=-1301/413, 9-76=-1301/413, 9-10=-969/305, 10-11=-2641/414, 11-77=-3047/374, 12-77=-3176/354, 12-13=-3334/341, 13-78=-5482/773, 14-78=-5679/768

BOT CHORD 2-35=-209/3087, 34-35=-1030/3475, 31-34=-1095/3536, 29-31=-1162/1302, 29-79=-1274/842, 79-80=-1274/842, 28-80=-1274/842, 28-81=-1274/842, 26-81=-1274/842, 26-82=-606/3104, 24-82=-606/3104, 22-24=-606/3104, 18-22=-606/3104, 17-18=-1347/8193, 17-83=-1314/8112, 83-84=-1314/8112, 84-85=-1314/8112, 16-85=-1314/8112, 16-86=-558/4830, 86-87=-558/4830, 87-88=-558/4830, 14-88=-558/4830, 32-33=-1412/3151, 30-32=-1412/3151, 30-89=-505/3587, 89-90=-505/3587, 27-90=-505/3587, 27-91=-469/5967, 25-91=-469/5967, 25-92=-469/5967, 23-92=-469/5967, 21-23=-768/1538, 20-21=-4775/1212, 19-20=-4775/1212

WEBS 3-35=-423/338, 33-34=-104/336, 5-33=-115/759, 17-19=-137/631, 11-19=-128/937, 13-16=-312/1670, 6-38=-2758/336, 36-38=-2747/337, 36-37=-2520/290, 10-37=-2531/289, 25-26=-307/0, 8-36=-494/116, 7-36=-203/754, 9-36=-219/579, 23-24=-244/1549, 23-26=-5952/760, 21-22=-1565/215, 18-20=-353/0, 18-21=-717/4562, 18-19=-1348/366, 27-28=-115/952, 26-27=-3278/197, 29-30=-1390/195, 31-32=-292/0, 30-31=-350/2164, 31-33=-668/338, 33-35=-1104/2904, 3-33=-1019/453, 16-19=-3476/948, 13-19=-2571/668

**NOTES-**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	WOLVINGTON RES ROOF
22-1327-A	TG01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCELL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) All plates are 2x4 MT20 unless otherwise indicated.
- 10) The Fabrication Tolerance at joint 18 = 8%
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Ceiling dead load (5.0 psf) on member(s). 5-6, 10-11, 6-38, 36-38, 36-37, 10-37; Wall dead load (5.0psf) on member(s).5-33, 11-19
- 15) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 32-33, 30-32, 27-30, 25-27, 23-25, 21-23, 20-21, 19-20
- 16) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=130, 26=142, 14=460.
- 17) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 19) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 20) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 379 lb down and 107 lb up at 43-0-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 21) Attic room checked for L/360 deflection.
- 22) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-66, 5-6=-76, 6-7=-66, 7-9=-66, 9-10=-66, 10-11=-76, 11-15=-66, 67-70=-20, 19-33=-30, 6-10=-10

Drag: 5-33=-10, 11-19=-10

Concentrated Loads (lb)

Vert: 17=-247(B) 24=-247(B) 22=-247(B) 18=-247(B) 79=-247(B) 80=-247(B) 81=-247(B) 82=-247(B) 83=-247(B) 84=-247(B) 85=-247(B) 86=-247(B) 87=-247(B)

88=-371(B)